

FIGURE 1A

120

× 10 - 1	Total Usad   Total Land   Total	FOOT 120 0 100 FOOT 170 FOOT 1	7000	(2.3 pww16	I PURINALI	Sivola in Lotinal Interrupt Rouling	g [Gecoment   Timing ] Ath   SompleCode   Plugislen (   )
Edicion William Toda Yanter Libra (1977) (1	12.1			Cyraliss MicroSistams	16-Bit Pulse Width Modulator	cks 2 Dryllel, 0 Arteloy 66 byles FLASH, 0 Evilss SRAM	PINS     Processing   Products   Duscopton   Speets   Processing   Processing   Although   Although   Although   Products   Overview   Duscopton   Speets   Processing   Although   Altho
Copper Peaco Donigate   Dovice Editor   Maria   Peaco   Peaco	ADCs (1947Agduler sintefet for poerment Chumans   1947   125   1947   125   1947   194				16-Bit	Rezources. PSoC <sup>1M</sup> Blocks Monnory	Saino Une of Modules Postourine

FIGURE 1B

150

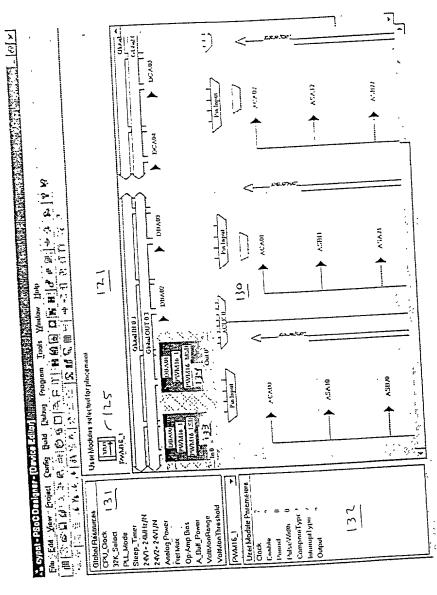


FIGURE 1C

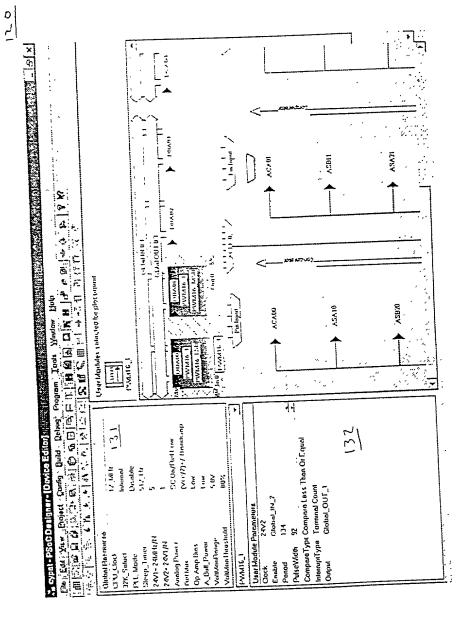


FIGURE 1D

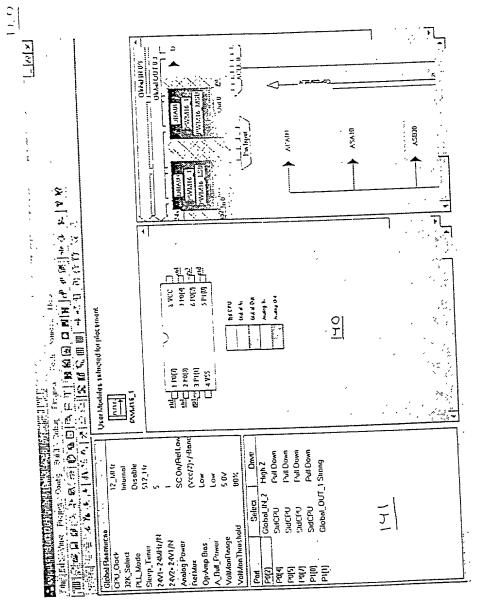


FIGURE 1E

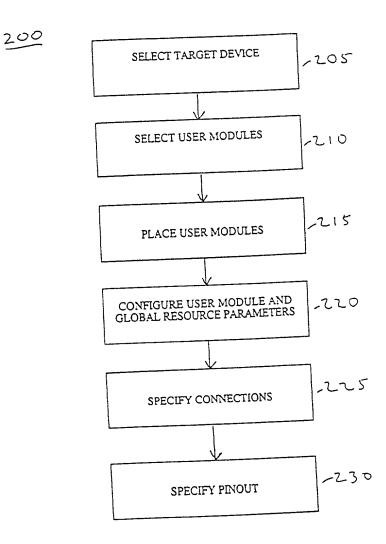


FIGURE 2A

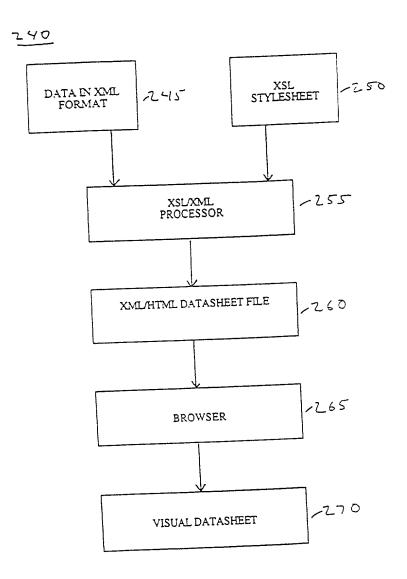


FIGURE 2B

```
<PSOC_DEVICE_DB>
<SHAPE SHAPE_TYPE="BLOCKLIST"
COLOR_INDEX="0">
                             <BLOCK_LIST>
                                  <BLOCK NAME="PWM16_LSB"
TYPE="DIGITAL" LOCATION="0">
                                       <REGISTER_LIST>
                                            <REGISTER
NAME="CONTROL_0" ADDR="23" VALUE="0"/>
                                            <REGISTER
NAME="DATA_0" ADDR="20" VALUE="0"/>
                                            <REGISTER
NAME="DATA_1" ADDR="21" VALUE="86"/>
                                            <REGISTER
NAME="DATA_2" ADDR="22" VALUE="5c"/>
                                            <REGISTER
NAME="DIG_BasicFunction" ADDR= 120" VALUE="1"/>
                                            <REGISTER
NAME="DIG_Input" ADDR="121" VALUE="e6"/>
                                            <REGISTER
NAME="DIG_Output" ADDR="122 VALUE="0"/>
                                       </REGISTER_LIST>
                                       <INPUT_LIST/>
                                  </br>
</BLOCK>
<BLOCK NAME="PWM16_MSB"</p>
TYPE="DIGITAL" LOCATION="1">
                                       <REGISTER_LIST>
                                            <REGISTER
NAME="CONTROL_0" ADDR="27" VALUE="0"/>
                                            <REGISTER
NAME="DATA_0" ADDR="24" VALUE="0"/>
                                            <REGISTER
NAME="DATA_1" ADDR="25" VALUE="0"/>
                                            <REGISTER
NAME="DATA_2" ADDR="26" VALUE="0"/>
                                             <REGISTER</pre>
NAME="DIG_BasicFunction" ADDR="124" VALUE="21"/>
                                            <REGISTER
NAME="DIG_Input" ADDR="125" VALUE="36"/>
                                             <REGISTER
NAME="DIG_Output" ADDR="126" VALUE="5"/>
                                        </REGISTER_LIST>
```

FIGURE 3A

<INPUT\_LIST/>

<br/>
√BLOCK><br/>
√BLOCK\_LIST> <RESOURCE\_LIST/>

✓SHAPE>

<PARANETER\_LIST>

<PARAVETER NAVE="Clock" VALUE="24V2"/>

<PARANIETER NANE="CompareType"

VALUE="Compare Less Than Or Equal"/>

<PARAMETER NAME="Enable"

VALUE="Global\_IN\_2"/>

<PARAMETER NAME="InterruptType"

VALUE="Terminal Count"/>

<PARAMETER NAME="Output"

VALUE="Global\_OUT\_1"/>

<PARAMETER NAME="Period" VALUE="134"/>

<PARAMETER NAME="PulseWidth"

VALUE="92"/>

</paraneter\_List>
</user\_Module>
</user\_Module\_List>

Color

<RESOURCE NAME="24V1= 24MHz/N" VALUE="5"/>
<RESOURCE NAME="24V2= 24V1/N" VALUE="1"/>
<RESOURCE NAME="32K\_Select" VALUE="Internal"/>
<RESOURCE NAME="A\_Buff\_Power" VALUE="Low"/>
<RESOURCE NAME="A\_Buff\_Power" VALUE="COORDER" VALUE="COO <RESOURCE NAME="Analog Power" VALUE="SC On/Ref</p>

Low"/>

<RESOURCE NAME="CPU\_Clock" VALUE="12\_MHz"/>
<RESOURCE NAME="Op-Amp Bias" VALUE="Low"/>
<RESOURCE NAME="PLL\_Mode" VALUE="Disable"/> <RESOURCE NAME="Ref Mux" VALUE="(Vcc/2)+/-</pre>

BandGap"/>

<RESOURCE NAME="Sleep\_Timer" VALUE="512\_Hz"/>
<RESOURCE NAME="SwitchModePump"

VALUE="OFF"/>

<RESOURCE NAME="VoltMonRange" VALUE="5.0V"/>
<RESOURCE NAME="VoltMonThreshold"

VALUE="80%"/>

</GLOBAL\_RESOURCE\_LIST>

<RESERVED\_RESOURCE\_LIST>
<RESOURCE NAME="" VALUE="" TYPE=""/> <RESOURCE NAME="ASBI1-ASAI0" VALUE=""</p>

TYPE="DIRECT\_INPUT"/>

<RESOURCE NAME="ASB13-ASA12" VALUE=""

TYPE="DIRECT\_INPUT"/>

<RESOURCE NAME="ASB20-ASA21" VALUE=""

TYPE="DIRECT\_INPUT"/>

<RESOURCE NAME="ASB22-ASA23" VALUE=""

TYPE="DIRECT\_INPUT"/>

FIGURE 3B

```
<RESOURCE NAME="AnalogClock_0_Select" VALUE=""</p>
TYPE="ANALOG_CLOCK_SELECT"/>
                           <RESOURCE NAME="AnalogClock_1_Select" VALUE=""</p>
TYPE="ANALOG_CLOCK_SELECT"/>
                           <RESOURCE NAME="AnalogColumn_Clock_0"</p>
VALUE="24V1" TYPE="ANALOG_COLUNIN_CLOCK_MUX"/>
                           <RESOURCE NAME="AnalogColumn_Clock_2"
VALUE="24V1" TYPE="ANALOG_COLUMN_CLOCK_MUX"/>
                           <RESOURCE NAME="AnalogColumn_Clock_3"</pre>
VALUE="24V1" TYPE="ANALOG_COLUMN_CLOCK_MUX"/>
                           <RESOURCE NAME="AnalogColumn_InputMUX_0"
VALUE="Por_0_1" TYPE="COLUMN_NPUT"/>
                           <RESOURCE NAME="AnalogColumn_InputMUX_1"
VALUE="Pon_0_4" TYPE="COLUMN_DYPUT"/>
                           <RESOURCE NAME="AnalogColumn_InputMUX_2"
VALUE="Pon_0_5" TYPE="COLUMN_NPUT"/>
                           <RESOURCE NAME="AnalogColumn_InputMUX_3"</p>
VALUE="Port_0_0" TYPE="COLUMN_INPUT"/>
VALUE="AnalogColumn_InputMUX_2" TYPE="COLUMN_INPUT_SELECT"/>
VALUE="AnalogColumn_InputMUX_2" TYPE="COLUMN_INPUT_SELECT"/>
                           <RESOURCE NAME="AnalogComparatorControl_0"
VALUE="" TYPE="ANALOG_COMPARATOR_CONTROL"/>
                           <RESOURCE NAME="AnalogComparatorControl_1"
<RESOURCE NAME="AnalogComparatorControl_3"</p>
VALUE="" TYPE="ANALOG_COMPARATOR_CONTROL"/>
                           <RESOURCE NAME="AnalogModulator_Coi_0"</p>
VALUE="None" TYPE="ANALOG_MODULATOR"/>
                           <RESOURCE NAME="AnalogModulator_Col_2"</p>
VALUE="None" TYPE="ANALOG_MODULATOR"/>
                           <RESOURCE NAME="AnalogOutBuf_0" VALUE="OFF"</p>
TYPE="ANALOG_DRIVER"/>
                           <RESOURCE NAME="AnalogOutBuf_1" VALUE="OFF"</pre>
TYPE="ANALOG_DRIVER"/>
                           <RESOURCE NAME="AnalogOutBuf_2" VALUE="OFF"</p>
TYPE="ANALOG_DRIVER"/>
                           <RESOURCE NAME="AnalogOutBuf_3" VALUE="OFF"</p>
TYPE="ANALOG_DRIVER"/>
                           <RESOURCE NAME="AnalogOutBus_0" VALUE=""</p>
TYPE="ANALOG_COLUMN_OUTPUT"/>
                           <RESOURCE NAME="AnalogOutBus_1" VALUE=""</p>
TYPE="ANALOG_COLUMN_OUTPUT"/>
                           <RESOURCE NAME="AnalogOutBus_2" VALUE=""</p>
TYPE="ANALOG_COLUMN_OUTPUT"/>
```

FIGURE 3C

<RESOURCE NAME="AnalogOutBus\_3" VALUE=""</p> TYPE="ANALOG\_COLUMN\_OUTPUT"/> <RESOURCE NAME="ComparatorBus\_0" VALUE=""</pre> TYPE="ANALOG\_COMPARATOR\_OUTPUT"/> <RESOURCE NAME="ComparatorBus\_1" VALUE=""</p> TYPE="ANALOG\_COMPARATOR\_OUTPUT"/> <RESOURCE NAME="ComparatorBus\_2" VALUE=""</p> TYPE="ANALOG\_COMPARATOR\_OUTPUT"/> <RESOURCE NAME="ComparatorBus\_3" VALUE=""</p> TYPE="ANALOG\_COMPARATOR\_OUTPUT"/> <RESOURCE NANE="ComparatorClock" VALUE=""</pre> TYPE="COMPARATOR\_CLOCK"/> <RESOURCE NANE="ComparatorGate\_0" VALUE=""</pre> TYPE="COMPARATOR\_ENABLE"/> <RESOURCE NAME="ComparatorGate\_1" VALUE=""</pre> TYPE="COMPARATOR\_ENABLE"/> <RESOURCE NAME="ComparatorGate\_2" VALUE=""</pre> TYPE="COMPARATOR\_ENABLE"/> <RESOURCE NANE="ComparatorGate\_3" VALUE=""</p> TYPE="COMPARATOR\_ENABLE"/> <RESOURCE NAME="DBA00-DBA01" VALUE=""</pre> TYPE="DIRECT\_INPUT"/> <RESOURCE NAME="DBA01-DBA02" VALUE=""</pre> TYPE="DIRECT\_INPUT"/> <RESOURCE NAME="DBA02-DBA03" VALUE="" TYPE="DIRECT\_INPUT"/> <RESOURCE NAME="DBA03-DCA04" VALUE=""</pre> TYPE="DIRECT\_INPUT"/> <RESOURCE NAME="DCA04-DCA05" VALUE="" TYPE="DIRECT\_INPUT"/> <RESOURCE NAME="DCA05-DCA06" VALUE=""</pre> TYPE="DIRECT\_INPUT"/> <RESOURCE NAME="DCA06-DCA07" VALUE=""</p> TYPE="DIRECT\_INPUT"/> <RESOURCE NAME="Decimator" VALUE=""</pre> TYPE="DECIMATOR"/> <RESOURCE NAME="Global\_IN\_0" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Global\_IN\_1" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Global\_IN\_2" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Global\_IN\_3" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Global\_IN\_4" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Global\_IN\_5" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Globa!\_IN\_6" VALUE=""</pre>

FIGURE 3D

TYPE="GLOBAL\_BUS"/>

<RESOURCE NAME="Global\_IN\_7" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Global\_OUT\_0" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Globa!\_OUT\_1" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Global\_OUT\_2" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Global\_OUT\_3" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Global\_OUT\_4" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="G!obal\_OUT\_5" VALUE=""</pre> <RESOURCE NAME="G!obal\_OUT\_6" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Global\_OUT\_7" VALUE=""</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Port\_0\_2" VALUE="Global\_IN\_2"</pre> TYPE="GLOBAL\_BUS"/> <RESOURCE NAME="Port\_0\_2\_Drive" VALUE="High Z"</pre> TYPE="PLN"/> <RESOURCE NAME="Port\_0\_4" VALUE="StdCPU" TYPE="PEN"/> <RESOURCE NAME="Port\_0\_4\_Drive" VALUE="Pull</pre> TYPE="PIN"/> Down" TYPE="PIN"/> <RESOURCE NAME="Port\_0\_5" VALUE="StdCPU"</pre> <RESOURCE NAME="Port\_0\_5\_Drive" VALUE="Pull</p> TYPE="PLN"/> Down" TYPE="PIN"/> <RESOURCE NAME="Port\_0\_7" VALUE="StdCPU"</pre> <RESOURCE NAME="Port\_0\_7\_Drive" VALUE="Pull</pre> TYPE="PIN"/> <RESOURCE NAME="Port\_1\_0" VALUE="StdCPU"</pre> Down" TYPE="PIN"/> <RESOURCE NAME="Port\_1\_0\_Drive" VALUE="Pull</pre> TYPE="PIN"/> <RESOURCE NAME="Por\_1\_1" VALUE="Global\_OUT\_1</pre> Down" TYPE="PIN"/> (Strong)" TYPE="PIN"/> <RESOURCE NAME="Port\_1\_1\_Drive" VALUE="Strong"</pre> TYPE="PIN"/> <RESOURCE NAME="VT" VALUE=""</pre> TYPE="TEMPERATURE\_VOLTAGE"/> </RESERVED\_RESOURCE\_LIST> <GLOBAL\_REGISTER\_LIST> <REGISTER NAME="AnalogClockSelect" VALUE="0" <REGISTER NAME="AnalogColumnClockSelect"</pre> ADDR="161"/> VALUE="0" ADDR="160"/>

FIGURE 3E

<REGISTER NAME="AnalogColumnInputSelect"</pre> VALUE="28" ADDR="60"/> <REGISTER NAME="AnalogIOControl" VALUE="0"</p> ADDR="162"/> <REGISTER NAME="AnalogModulatorControl" VALUE="0" ADDR="163"/> <REGISTER NAME="AnalogReferenceControl" VALUE="5"</p> ADDR="63"/> <REGISTER NAME="AnalogSyncControl" VALUE="0"</pre> ADDR="65"/> <REGISTER NAME="DecimatorControl" VALUE="0"</pre> ADDR="e6"/> <REGISTER NAME="OscillatorControl\_1" VALUE="40"</pre> ADDR="lel"/> <REGISTER NAME="Port\_0\_Bypass" VALUE="4" ADDR="2"/> <REGISTER NAME="Port\_0\_DriveMode\_0" VALUE="0"</pre> ADDR="100"/> <REGISTER NAME="Port\_0\_DriveMode\_1" VALUE="4" ADDR="101"/> <REGISTER NAME="Port\_1\_Bypass" VALUE="2" ADDR="6"/> <REGISTER NAME="Port\_1\_DriveMode\_0" VALUE="2"</pre> ADDR="104"/> <REGISTER NAME="Pon\_1\_DriveMode\_1" VALUE="0"</pre> ADDR="105"/> <REGISTER NAME="Port\_2\_Bypass" VALUE="0" ADDR="a"/> <REGISTER NAME="Port\_2\_DriveMode\_0" VALUE="0" ADDR="108"/> <REGISTER NAME="Port\_2\_DriveMode\_1" VALUE="0" ADDR="109"/> <REGISTER NAME="Port\_3\_Bypass" VALUE="0" ADDR="e"/> <REGISTER NAME="Port\_3\_DriveMode\_0" VALUE="0" ADDR="10c"/> <REGISTER NAME="Port\_3\_DriveMode\_1" VALUE="0"</pre> ADDR="10d"/> <REGISTER NAME="Port\_4\_Bypass" VALUE="0" ADDR="12"/> <REGISTER NAME="Port\_4\_DriveMode\_0" VALUE="0" ADDR="110"/> <REGISTER NAME="Pon\_4\_DriveMode\_1" VALUE="0"</pre> ADDR="111"/> <REGISTER NAME="Port\_5\_Bypass" VALUE="0" ADDR="16"/> <REGISTER NAME="Port\_5\_DriveMode\_0" VALUE="0"</pre> ADDR="114"/> <REGISTER NAME="Port\_5\_DriveMode\_1" VALUE="0"</pre> ADDR="115"/>

FIGURE 3F

```
<REGISTER NAME="VoltageMonitorControl" VALUE="84"</pre>
```

ADDR="1e3"/>

FIGURE 3G

```
<?xml version="1.0"?>
csl.stylesheet xmlns:xsl="http://www.w3.org/TR/WD-xsl">
<asl:template match="/">
<HTML><HEAD>
      <TYLE>
             DIV.page [ page-break-before: always }
      </STYLE>
</HEAD>
<BODY>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
         <TABLE BORDER="0" CELLSPACING="0">
              <TR><TD>
                                   <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-</p>
serif;
                                                 font-size:12pt; color:blue;
text-align:center; letter-spacing:6px;
                                                 font-weight:bold">
                                                 PSoC Designer Configuration Sheet
                                   </DIV>
                                   <TD><TR>
                            <TR>
                                   <TD><ING SRC="cyp.jpg" ALIGN="LEFT"
WIDTH="350"/></TD>
                            </TR>
       </TABLE>
              </TD>
              <TR> <TD>
                                   DIV STYLE="media=print;font-family:Tahoma,Arial,sans-
serif;
                                                 font-size:10pt; color:black; text-align:center; letter-spacing:6px;
                                                 font-weight:bold">
                                                  <xsl:apply-templates select="@NANE"/>
                                    </DIV>
                             </TD></TR>
                             <TR>
                                    <TD><xsl:apply-templates select="@BASE_DEVICE"/></TD>
                             </TR>
                                    <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-</p>
serif;
                                                 font-size:12pt; color:black;
text-align:center; letter-spacing:6px;
font-weight:bold">
                                                  <sl:value-of</p>
 select="@CONFIG_SAVE_DATE"/>
                                    </DIV>
```

FIGURE 4A

```
</TD>/TR>
                  </ri>
           </TABLE></TD>
      </TR>
</TABLE>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
      <TR ALIGN="CENTER">
            <xsl:for-each select="//USER_MODULE_LIST/USER_MODULE">
                  <TD>LMG>
                   <<sl:attribute name="src">
                       <xsl.value-of select="@NAME" />_icon.gif "//"
                   </xsl·attribute>
                  </IMG></TD>
            </r></xsl.for-each>
      </TR>
</TABLE>
<P></P>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
      <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif;</pre>
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                                          text-align:center; letter-spacing:6px; font-weight:bold">
                                          Signal Pin Table
      </DIV>
      <TR><TD WIDTH="320">
            <TABLE BORDER="1" CELLSPACING="0" ALIGN="CENTER">
                        <TR ALIGN="CENTER">
                              <TD>Pin#</TD>
                              <TD>Label</TD>
                              <TD>Select</TD>
                              <TD>Drive</TD>
                        </TR>
                        <TD><xsl:apply-templates
select="@PIN_NUMBER"/></TD>
                                    <TD ><xsl:apply-templates
select="@PIN_LABEL"/></TD>
                                    <TD ><xsl:apply-templates
select="@PIN_SELECT"/></TD>
                                    <TD>xsl:apply-templates
select="@PIN_DRIVE"/></TD>
                              </TR>
                        </xsl:for-each>
            </TABLE>
      </TD>
      <TD>
            <TABLE BORDER="0" CELLSPACING="0">
                  <TR>>
                        <TD><IMG SRC="part.jpg"/></TD>
                  </TR>
                                            442
```

FIGURE 4B

```
</TABLE>
      </TD></TR>
<TABLE>
₽>
<P></P>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
      <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif;</pre>
                          font-size:12pt; color:blue;
                          text-align:center; letter-spacing:6px;
                          font-weight:bold">
                          Selected Global Parameters
      </IV>
      <TR>
             <TD>Name</TD>
             <TD>Value</TD>
      <TR>
      <xsl:for-each select="//GLOBAL_RESOURCE_LIST/RESOURCE">
                   <TD>xsl:apply-templates select="@NAME"/></TD>
<TD>xsl:apply-templates select="@VALUE"/></TD>
             </TR>
      </xsl:for-each>
<TABLE>
<xsl:for-each select="//USER_MODULE_LIST/USER_MODULE">
      </DIV>
      <TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
             <TR><TD>
                    <TABLE BORDER="0" CELLSPACING="0">
                          <TR><TD ALIGN="CENTER">
                                 <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-</p>
serif;
                                               font-size:12pt, color:blue;
                                              text-align:center; letter-spacing:6px; font-weight:boid">
                                               User Module Detail
                                               <xsl:value-of select="@NAME"/>
                                  </DIV>
                           </TD></TR>
                           <1R>
                                  <TD><IMG SRC="cyp.jpg" ALIGN="LEFT"
WIDTH="350"/></TD>
                           <∕TR>
                    </TABLE></TD>
                    <TD>
                           <TABLE BORDER="0" CELLSPACING="0" ALIGN="CENTER">
                                  <TR><TD><IMG>
                                   <xsl:attribute name="src">
                                         <xsl:value-of select="@NAME" />_icon.gif
                                   </r>
/xsl:attribute>
```

FIGURE 4C

```
</ING></TD></TR>
                                                             </TABLE>
                     </TD></TR>
</TABLE>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
                     <TR>TD>IMG>

<a href="mailto:color: red;">c<a href="mailto:color: red;">c<

csl:value-of select="@NAME" />_block gif

                         </xsl:attribute>
                     </MG></TD></TR>
</TABLE>
<P/>/>
 <TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
                     ZEBORDER 1 CELEGI ACTION (1997) And Sans-Serif; font-size:12pt; coloriblue;
                                                                                                     text-align:center; letter-spacing:6px;
                                                                                                      font-weight:bold">
                                                                                                     Parameters
                       </DIV>
                      <TR
                                          STYLE="font-family:Tahoma, Arial, sans-serif;
                                          font-size: 10pt; color:red;
                                         text-align/center; letter-spacing:8px; font-weight:bold">
                                          <TD>Parameters</TD>
                                          <TD>Value</TD>
                      </TR>
                       <xsl:for-each select="PARAMETER_LIST/PARAMETER">
                                          <TR>>
                                                               <TD>xsl:apply-templates select="@NAME"/></TD>
<TD>xsl:apply-templates select="@VALUE"/></TD>
                                          </TR>
                       </ri>
 </TABLE>
  <BR/>
   <TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
                       <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif;</pre>
                                                                                                       font-size:12pt; color:blue;
                                                                                                       text-align:center; letter-spacing:6px;
                                                                                                        font-weight:bold">
                                                                                                        Blocks
                        </DIV>
                       <xsl:for-each select="SHAPE">
    <xsl:for-each select="BLOCK_LIST/BLOCK">
    <TR/><TR/><TR/>
                                                                  <TR
                                                                 STYLE="font-family:Tahoma, Arial, sans-serif;
                                                                 font-size:11pt; color:red;
                                                                 text-align:center; letter-spacing:8px;
                                                                 font-weight:bold">
                                                                 <TD>
```

FIGURE 4D

```
<DIV STYLE="media=print;font-family:Tahoma,Arial,sans-</p>
serif;
                                                       font-size:12pt; color:blue;
                                                       text-align:center; letter-spacing:6px;
                                                       font-weight:bold">
                                                       Block
                                       </DIV>
                                </TD>
                                <TD>Type<TD>
                                <TD>Location</TD>
                                </TR>
                                <TR>
                                       <TD>xsl:apply-templates select="@NAME"/>/TD>

<TD>xsl:apply-templates select="@TYPE"/>/TD>

<TD>xsl:apply-templates select="@LOCATION"/>/TD>
                                <TR>
                                <TR
                                        STYLE="font-family:Tahoma, Arial, sans-serif;
                                        font-size:10pt; color:red;
                                        text-align:center; letter-spacing:8px;
                                        font-weight:bold">
                                        <TD>Registers</TD>
<TD>Address</TD>
                                        <TD>Value</TD>
                                </TR>
                                <xsl:for-each select="REGISTER_LIST/REGISTER">
                                        <TR>>
                                               <TD><xsl:apply-templates select="@NAME"/></TD>
<TD><xsl:apply-templates select="@ADDR"/></TD>
<TD><xsl:apply-templates select="@VALUE"/></TD>
                                        <TR>
                                </ri>
                                <TR HEIGHT="10"/>
                        </xsl:for-each>
                </ri>
        </TABLE>
</xsl:for-each>
<DIV CLASS="page">
<BR/>
<BR/>

</DIV>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
                <TABLE BORDER="0" CELLSPACING="0">
                        <TR><TD><IMG SRC="cyp.jpg" ALIGN="LEFT"
WIDTH="350"/></TD></TR>
                </TABLE>
         </TD>
         <TD>
                 <TABLE BORDER="0" CELLSPACING="0" ALIGN="CENTER">
                 <TR><TD>
                         <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif;</pre>
```

FIGURE 4E

```
font-size:16pt; color:blue;
                                                                                               text-align:center; letter-spacing:6px;
                                                                                               font-weight:bold">
                                                                                               Appendix
                                                        </DIV>
                                      </TD></TR>
                                      </TABLE>
                   </TD></TR>
</TABLE>
<P></P>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
                   <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif;</pre>
                                                                                              font-size:12pt; color:blue;
                                                                                               text-align:center; letter-spacing:6px;
                                                                                                font-weight:bold">
                                                                                                Pin
                    </DIV/>
                    <TR>
                                       <TD>Name</TD>
                                       <TD>Value</TD>
                     </TR>
                    <xsl:for-each select="//RESERVED_RESOURCE_LIST/RESOURCE">
                                       <xsl:if match="RESOURCE[@TYPE='PIN']">
                                                         <TR>
                                                                            \label{top:continuous} $$$TD>xsl:apply-templates select="@NAME"/></TD>$$$TD>xsl:apply-templates select="@VALUE"/></TD>$$
                                                         </TR>
                                       </xsl:if>
                     </xsl:for-each>
 </TABLE>
 <P></P>
 <TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
                     <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif.</p>
                                                                                                font-size:12pt; color:blue;
                                                                                                 text-align:center; letter-spacing:6px;
                                                                                                 font-weight:bold">
                                                                                                 Analog Člocks
                      </DIV>
                      <TR><TD>Name</TD>
                                        <TD>Value</TD>
                      </TR>
                      <xsl:for-each select="//RESERVED_RESOURCE_LIST/RESOURCE">
                                        <xsliif match="RESOURCE[@TYPE='ANALOG_CLOCK_SELECT]">
                                                                               <TD><xsl:apply-templates select="@NAME"/></TD>
<TD><xsl:apply-templates select="@VALUE"/></TD>
                                                           </TR>
                                         <1::12x\>
                      </xsl:for-each>
                      </shiot-cach select="//RESERVED_RESOURCE_LIST/RESOURCE">
</slifer-each select="//RESERVED_RESOURCE_CIST/RESOURCE">
</slifer-each select="//RESERVED_RESOURCE_CIST/RESOURCE">
</slifer-each select="//RESERVED_RESOURCE_CIST/RESOURCE">
</slifer-each select="//RESERVED_RESOURCE_CIST/RESOURCE">
</slifer-each select="//RESERVED_RESOURCE_CIST/RESOURCE">
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</slifer-each select="//RESERVED_RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURCE_CIST/RESOURC
```

FIGURE 4F

```
<TR>
                          <TD>xsl:apply-templates select="@NAME"/>/TD>
                          <TD>xsl:apply-templates select="@VALUE"/></TD>
                    </TR>
             </xsl:if>
      </ri>
</TABLE>
<P></P>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
      <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif;</pre>
                                 font-size:12pt; color:blue;
                                  text-align:center; letter-spacing:6px;
                                  font-weight:bold">
                                  Analog Input MUX
      </DIV>
      <TR>
             <TD>Name</TD>
             <TD>Value</TD>
      </TR>
      <xsl:for-each select="//RESERVED_RESOURCE_LIST/RESOURCE">
<xsl:if match="RESOURCE[@TYPE="COLUMN_INPUT]">
                    <TR>
                           <TD>xsl:apply-templates select="@NAME"/></TD>
<TD><xsl:apply-templates select="@VALUE"/></TD>
                    <TR>
             √xsl:if>
      </xsl:for-each>
</TABLE>
<P></P>
<TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
       <DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif;</pre>
                                  font-size:12pt; color:blue;
                                  text-align:center; letter-spacing:6px;
                                  font-weight:bold">
                                  Analog Buffer Output
       </IDV>
       <TR>
              <TD>N2me</TD>
              <TD>Value</TD>
       </TR>
       <xsl:for-each select="//RESERVED_RESOURCE_LIST/RESOURCE">
              <xsl:if match="RESOURCE[@TYPE='ANALOG_DRIVER']">
                            <TD>xsl:apply-templates select="@NAME"/></TD>
                            <TD><>sl:apply-templates select="@VALUE"/></TD>
                     </TR>
              </xsl:if>
       </ri>
 </TABLE>
 <P></P>
 <TABLE BORDER="1" CELLSPACING="0" WIDTH="640">
```

FIGURE 4G

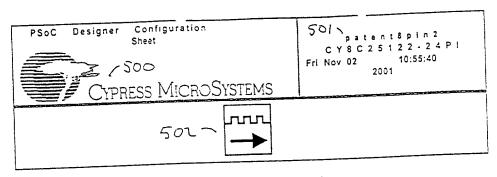
```
<DIV STYLE="media=print;font-family:Tahoma,Arial,sans-serif; font-size:12pt; color:blue;</p>
                                    text-align:center, letter-spacing:6px;
font-weight:bold">
Global Register Values
       </DIV>
       <TR>
               <TD>Name</TD>
              <TD>Address</TD>
              <TD>Value</TD>
       </TR>
       <xsl:for-each select="//GLOBAL_REGISTER_LIST/REGISTER">
                      <TD>xsl:apply-templates select="@NAME"/></TD>
<TD>xssl:apply-templates select="@ADDR"/></TD>
<TD>xssl:apply-templates select="@VALUE"/></TD>
               </r>

√TR>

        </xsl:for-each>
</TABLE>
</BODY>
               </HTML>
</xsl:template>
</xsl:template>
<xsl:template match="@VALUE">
        <xsi:value-of/>
</xsl:template>
</xsl:template>
<xsl:template match="@SOURCE_GEN_TIME">
       <xsl:value-of/>
</xsl:template>
font-size:12pt; color:blue;
                                                    text-align:center; letter-spacing:6px; font-weight:bold">
                                                    <xsl:value-of/>
        </DIV>
</xsl:template>
<<si:template match="@TYPE">

 </xsi:template>
```

FIGURE 4H

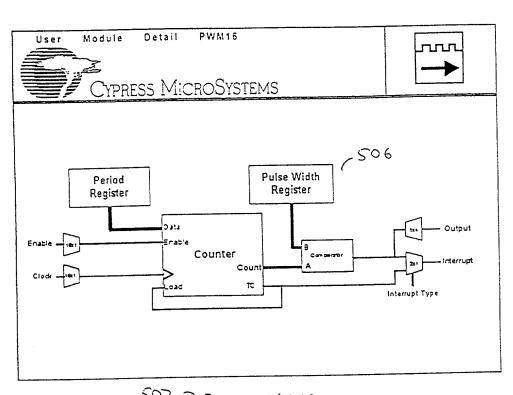


		503 -si	gnal P	Pin Table
Pin	Label	Select	Drive	25122 PDIP / 504
1	P0[7]	StdCPU	Pull Down	
2	P0[5]	StdCPU	Pull Down	
3	P1[1]	Global OUT 1 (Stron	g) Strong	P9(7) 1 8 Vee P0(5) 2 7 P0(4)
4	VSS			
5	P1[0]	StdCPU	Pull Down	V <sub>55</sub> 4  5  P <sub>1</sub> [0]
6	P0[2]		High Z	
7	P0[4]	StdCPU	Pull Down	
8	VCC			

5°57Selected	i Global Parameters
	Value
Name	5
24V1= 24MHz/N	
24V2= 24V1/N	
32K Select	Internal
A Buff Power	Low
Analog Power	SC On/Ref Low
	12 MHz
CPU_Clock	Low
Op-Amp Bias	Disable
PLL_Mode	
Ref Mux	(Vcc/2)+/-BandGap
	512_Hz
Sleep_Timer	OFF
SwitchModePump	5.0V
VoltMonRange	
VoltMonThreshold	80%

FIGURE 5A

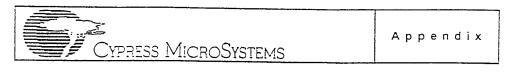




507 - Parameters Value Parameters 24V2 Clock Compare Less Than Or Equal CompareType Global\_IN\_2 Enable Terminal Count InterruptType Global\_OUT\_1 Output 134 Period 92 PulseWidth

FIGURE 5B

	3-Blocks			
Block	Туре	Location		
PWM16 LSB	DIGITAL	0		
Registers	Address	Value		
CONTROL_0	23	0		
DATA 0	20	0		
DATA_1	21	36		
DATA 2	22	5c		
DIG BasicFunction	120	1		
DIG Input	121	e6		
DIG_Output	122	0		
Block	Туре	Location		
PWM16 MSB	DIGITAL	1		
Registers	Address	Value		
CONTROL_0	27	0		
DATA 0	24	0		
DATA_1	25	0		
DATA 2	26	0		
DIG BasicFunction	124	21		
DIG Input	125	36		
DIG_Output	126	5		



SOFT Pin			
Name	Value		
Port_0_2	Global_IN_2		
Port_0_2_Drive	High Z		
Port_0_4	StdCPU		
Port_0_4_Drive	Pull Down		
Port_0_5	StdCPU		
Port_0_5_Drive	Pull Down		
Port_0_7	StdCPU		
Port_0_7_Drive	Pull Down		
Port_1_0	StdCPU		
Port_1_0_Drive	Pull Down		
Port_1_I	Global_OUT_1 (Strong)		
Port_1_1_Drive	Strong		

510 Analog	Clocks
Name	Value
AnalogClock_0_Select	
AnalogClock_1_Select	
AnalogColumn_Clock_0	24V1
AnalogColumn_Clock_1	24V1
AnalogColumn_Clock_2	24V1
AnalogColumn_Clock_3	24V1

SII Analog	g Input	MUX	
Name			Value
AnalogColumn_InputNIUX_0			Port_0_1
AnalogColumn_InputMUX_I			Port_0_4
AnalogColumn_InputMUX_2			Port 0 5
AnalogColumn_InputMUX_3			Port 0 0

FIGURE 5D

SB~Global Register	Values	
Name	Address	Value
AnalogClockSelect	161	0
AnalogColumnClockSelect	160	0
AnalogColumnInputSelect	60	28
AnalogIOControl	162	lo
AnalogModulatorControl	163	0
AnalogReferenceControl	63	5
AnalogSyncControl	65	) O
DecimatorControl	e6	)o
OscillatorControl_1	lel	≟0
Port_0_Bypass	2	<u> -</u>
Port_0_DriveMode_0	100	jo
Port_0_DriveMode_1	101	<u>-</u>
Port_1_Bypass	6	2
Port_1_DriveMode_0	104	2
Port_1_DriveMode_1	105	10
Port_2_Bypass	a	[·)
Port_2_DriveMode_0	108	[]
Port_2_DriveMode_1	109	<b>o</b>
Port_3_Bypass	е	[0
Port_3_DriveMode_0	10c	0
Port_3_DriveMode_1	10d	0
Port_4_Bypass	12	[0
Port_4_DriveMode_0	110	0
Port_4_DriveMode_1	111	0
Port_5_Bypass	16	0
Port_5_DriveMode_0	114	0
Port_5_DriveMode_1	115	o
VoltageMonitorControl	1e3	34

FIGURE 5E